## IN THE CLAIMS

Kindly amend the claims as indicated by the amended claim set below.

1. (Original) A method of authenticating, using an authentication server, the use of an authentication device over a communication network via an intermediate communication device, comprising:

receiving an authentication datagram by said intermediate device;

protecting said datagram by said intermediate device, by at least one of changing, adding to, encrypting and signing of said datagram; and

forwarding said datagram to said authentication server for authentication.

- 2. (Original) A method according to claim 1, wherein said intermediate device comprises a vendor WWW site.
- 3. (Original) A method according to claim 2, wherein protecting comprises adding a signature associated with said vendor to said datagram.
- 4. (Original) A method according to claim 2, wherein protecting comprises encrypting said datagram.
- 5. (Currently Amended) A method according to <u>claim 1 any of elaims 1-4</u>, wherein said intermediate device comprises a user computing device.
- 6. (Original) A method according to claim 5, wherein said computing device adds a time stamp to said datagram.
- 7. (Original) A method according to claim 5, wherein said computing device adds a vendor-associated information item to said datagram.
- 8. (Original) A method according to claim 5, wherein said computing device encrypts said datagram.

- 9. (Original) A method according to claim 8, wherein said encryption uses a one time code.
- 10. (Currently Amended) A method according to claim 8-or elaim-9, wherein said one time code is provided by a vendor for a particular session with said user.
- 11. (Original) A method according to claim 5, wherein said user computing device uses an embedded software component for said protecting.
- 12. (Original) A method according to claim 11, wherein said embedded software comprises an ActiveX component.
- 13. (Original) A method according to claim 11, wherein said component is cached on said user device.
- 14. (Original) A method according to claim 11, wherein said component requires a property value provided by a vendor to operate.
- 15. (Original) A method according to claim 1, wherein communication between said intermediate device and said server uses a secure connection.
- 16. (Original) A method according to claim 1, wherein different communication paths are used for said authentication and for transaction details from said user.
- 17. (Original) A method according to claim 1, wherein different communication paths are used for said authentication and for transaction details from a vendor to said authentication server.
- 18. (Original) A method of authentication of an authentication datagram by a remote authentication server, comprising:

sending an encrypted datagarm by secure computer communication from a vendor software to said remote authenticator:

comparing said datagram or a hash thereof to a hash table at said server; and

generating a binary validation answer by said server without an associated explanation.

19. (Original) A method of authentication of an authentication datagram by a remote authentication server, comprising:

sending an encrypted datagram by computer communication from an authentication device to said remote authentication server;

searching, at said server, for a hash value matching said datagram or a hash thereof; and

generating a validation answer by said remote authentication server, responsive to said search,

wherein, said datagram includes a secret code and wherein said secret code exists only on said authentication device.

- 20. (Original) A method according to claim 19, wherein said authentication device includes a plurality of secret codes that are generated to appear unrelated.
- 21. (Original) A method of generating a code set for an authentication device, comprising: providing a code generating software; providing at least one seed code for said software; generating said code set using said software and said seed; destroying said seed immediately after generating said code set; and storing said code set or an indication thereof on an authentication device.
- 22. (Original) A method according to claim 21, comprising generating hash values for said code set.
- 23. (Original) A method according to claim 22, comprising generating a second set of hash values for said code set, using a different hash function for said second set.

24. (Original) A method of communication between a vendor and a user using an authentication device, comprising:

generating a one time code for the user for a session;

receiving an authentication datagram from said user; and

passing on said datagram for verification by a remote authentication server if at least an indication of said one time code that matches said user is provided with said datagram.

- 25. (Original) A method according to claim 24, comprising signing said datagram using said one time code by said user.
- 26. (Original) A method of remote validation, comprising:

receiving an authentication datagram by an authentication server from a remote authentication device;

matching said datagram or a hash of said datagram to a table;

calculating a counter value from a matching position in said table; and

validating said authentication datagram based on an increase in said counter over a previous counter being within a certain limit.

27. (Original) A method according to claim 26, comprising:

failing said authentication based on said increase being too large; and

allowing a subsequent authentication based on a further increase of said subsequent validation being below a second threshold.

- 28. (Original) A method according to claim 27, wherein said thresholds are the same.
- 29. (Original) A method according to claim 27, wherein said second threshold is smaller than said certain threshold.
- 30. (Currently Amended) A method according to claim 26 any of claim 26 29, wherein said counter comprises an ordinal position in said table that is not apparently related to a series of generated random numbers.

31. (Original) A method of detecting a transmission of an acoustic multitone FSK signal, comprising:

receiving an acoustic signal;

converting the signal into a Hilbert-transform representation of the signal

correlating said converted signal with at least one reference signal representing at least one expected frequency in said FSK signal;

integrating said correlation over an interval; and

determining if a signal is present, based on a thresholding of a result of said integrating.

- 32. (Original) A method according to claim 31, comprising further determining if a detected signal has a frequency within a certain frequency range.
- 33. (Currently Amendmed) A method according to claim 31-or claim 32, comprising further determining if a detected signal has a signal to noise ratio within a certain signal to noise ratio range.
- 34. (Original) A method according to claim 31, comprising resampling said signal after said determining.
- 35. (Original) A method according to claim 31, wherein said threshold is noise dependent of the received signal.
- 36. (Original) A method according to claim 31, comprising calculating said interval based on a hardware characteristic of a producer of said acoustic signal.